UNITED STATES MINERAL PRODUCTS COMPANY

SINCE 1875

General Office and Plant
STANHOPE, NEW JERSEY 07874

Tel. 347-1200 Area Code 201
Cable: CAFCOINSUL, New York

March 1, 1968

Mr. F.H. Worneke
N.Y. Port Authority, 11th Floor
30 Church St.
New York, New York

Subject: Actual Field Test of CAFCO Type "D" Fireproofing and Thermal Insulation at World Trade Center Site in Adverse Weather Conditions

Dear Mr. Worneke:

As requested by your department, the above test was conducted yesterday, February 29, 1968 at the job site.

Following is the factual data:

1) In attendance:

F. H. Worneke, N.Y. Port Authority
David Brown, N.Y. Port Authority
Chuck Wolfe, Emery Roth & Sons
Marvin Altman, Tishman
Louis DiBono, Mario & DiBono
James Padilla, Mario & DiBono
Frank M. Stumpf, CAFCO
Harry Gropp, CAFCO
Allen Bessomer, CAFCO

PLAINTIFF'S EXHIBIT
PX-487

2) Weather conditions: Per U.S. Weather Bureau and observations at the site:

a) Temperatures - Range from 8:00 A.M. to 11:00 P.M. - 33° - 39°F. During night, the low was 24°F. At both 11:00 A.M. and 2:00 P.M. spraying, the temperature was 36°F.

b) Weather - Rain commenced at Approx. 10:00 A.M., during preparations to spray. Rain continued throughout the day, intermixed with sleet at various times. Three to five inches of snow fell during late evening, night.

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3) Steel: Two vertical columns 6' - 0" high, and a horizontal beam, welded to top of columns, approx. 8' - 0" long. All steel was 16 WF sections.

4) Application of CAFCO:

a) At 11:00 A.M., one column (south column) was sprayed at a nominal 1 1/2" thick. The south side of this column was left exposed, as requested.

b) At 2:00 P.M. the north column and the beam were sprayed. Various thicknesses, ranging from 1/2" to 2", were applied on this column and beam. Two special thicknesses were applied. At a point 4' - 0" high on the south face of the north column an area approx. 16" wide by 12" high was sprayed 5 inches plus thick. In the center of the horizontal beam, on the west side, and between the flanges, an area approx. 16" high by 12" wide, was sprayed 10 inches plus thick.

c) The CAFCO Type "D" was applied in accordance with standard Manufacturer's recommendations. The steel was pre-wet with water and the fiber applied to desired thickness. No tamping was done. No overspray of any kind was used. The specimen was left to weather.

5) General Comments:

a) Material was CAFCO's special Type "D" formulation.

b) Sprayers, crew, technicians and equipment were supplied by Mario & DiBono and CAFCO.

c) Conditions were very poor. Working on a rough, demolished site area, machine and material exposed to sleet and rain etc. Winds ranged from 15 - 45 mph in gusts.

The above information covers the complete test. All requests were complied with, and all concerned were satisfied that it would be an excellent test of the material. Pictures were taken during the spraying, after the spraying, and the following morning. These will be made available as soon as processed.

The results should be self-evident in a few days. Both Mario & DiBono and CAFCO know you will be pleased.

Very truly yours,

UNITED STATES MINERAL PRODUCTS COMPANY

Harry S. Gropp
Sales Manager
Architectural Specialty Products

HSG/aq

cc: Mr. Louis DiBono
Mario & DiBono
New York, N.Y.

Mr. Raymond Monte
N.Y. Port Authority
New York, New York

Mr. Joseph Solomon
Emery Roth & Sons
New York, New York

Mr. Marvin Altman
Tishman Realty & Const. Co.
New York, N.Y.

Mr. James Davis
Cupples Products Co.
St. Louis, Mo.

Mr. Anthony Faranda
Alcoa
New York, New York